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国際調査報告書

(54) Title: MANUALLY DRIVEN MECHANISM

(54) 発明の名称 人力駆動機構

(57) Abstract

Manually driven mechanisms such as manually driven vehicles or machines imitating such vehicles, for example, bicycles, wheel chairs, boats, manually driven air planes and training machines. Manually driven mechanism units comprising rotary bodies (1, 100) consisting of sprockets and support bodies (2, 200) consisting of sprockets, provided in pairs and disposed one above the other, and chains (3, 300) passed therearound, are disposed laterally, the right and left rotary bodies (1, 100) being fixed on a drive shaft (15), and a loaded chain ring (6) is attached on the drive shaft (15) and between the rotary body (1) and the rotary body (100). Suppressing means comprising free cranks (10, 1000) and arms (11, 1100) ensure that the shafts of pedals (4, 400) are constantly held vertical with respect to the moving planes of the individual chains. The period in which the force transmitted from the feet to the pedals is effectively converted to torque is prolonged.

